ABSTRACT OF THE DISCLOSURE

Datagram transmission device that executes route searching and other searching at high speed. Information used for transmission control is read from a received datagram and the information that are thus read are used to generate an identification key. Next, a transmission control rule corresponding to the selected key is selected from a transmission control rule list. The datagram transmission device controls transmission of the datagram in accordance with the selected transmission control rule. Since the transmission control rule is selected from a list using an identification key, determination of the content of control can be performed in a short time.

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